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(72)発明者: 戸津勝行 (TOTSU,Katsuyuki) [JP/JP]; 〒131-0045 東京都墨田区押上1丁目32番13号 Tokyo (JP).

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(74)代理人: 本田崇 (HONDA,Takashi); 〒107-0052 東京都港区赤坂1丁目1番17号細川ビル8階 Tokyo (JP).

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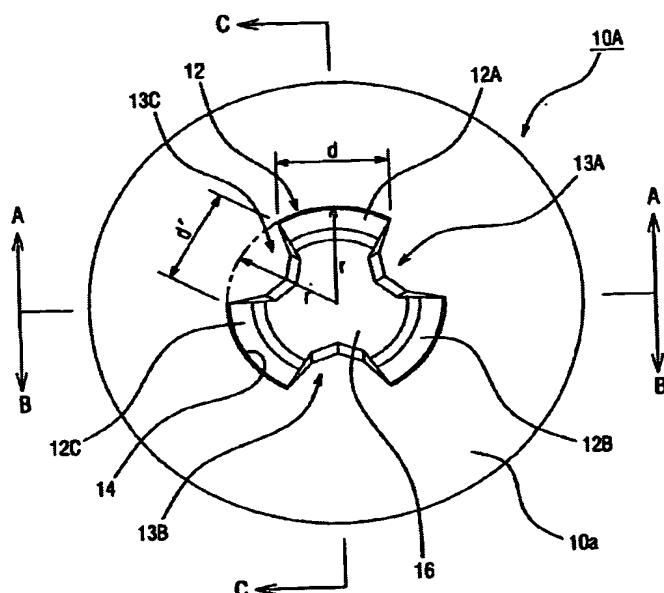
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(54) Title: SCREW WITH STABILIZED STRENGTH, COMBINATION WITH DRIVER BIT, AND HEADER PUNCH FOR PRODUCING SCREW WITH STABILIZED STRENGTH

(54)発明の名称: 強度安定型ねじ及びドライバービットとの組合せ並びに強度安定型ねじ製造用ヘッダーパンチ



(57) Abstract: A screw having stabilized strength, combination with a driver bit that best fits the screw, and a header punch for producing the screw. The screw having stabilized strength has letter Y-shaped bit-fitting grooves formed in the head portion of the screw. Forming the grooves makes fitting of a corresponding driver to the screw easy, prevents occurrence of a cam-out phenomenon to enhance work efficiency, makes torque transmission to be made smoothly and sufficiently, and stabilizes strength. The bit-fitting grooves are formed in a letter Y shape that is substantially equally divided into three sections in the circumferential direction, the grooves being formed at positions required distances away from the central portion of the screw head. The width of each of the grooves extending in radial directions from the central portion of the bit-fitting grooves is set so that the grooves are gradually expanded and substantially equally spaced with spacings each equal to the width of a boundary section between adjacent grooves. Further, the outer peripheral end wall surface of each bit-fitting groove is made substantially vertical from an opening edge section up to a required depth. The outer peripheral end wall surface is displaced downward from a lower edge section of the wall surface toward the central portion of the screw head, and the center where the wall surfaces meet are formed as a substantially conical bottom surface.

width of a boundary section between adjacent grooves. Further, the outer peripheral end wall surface of each bit-fitting groove is made substantially vertical from an opening edge section up to a required depth. The outer peripheral end wall surface is displaced downward from a lower edge section of the wall surface toward the central portion of the screw head, and the center where the wall surfaces meet are formed as a substantially conical bottom surface.

(57) 要約: ねじ頭部にY字状のビット嵌合溝を形成するねじとして、これに対応するドライバービットとの組合せが容易であり、カムアウト現象の発生を防止して作業効率を向上することができると共に、トルク伝達を円滑

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